

VESTFROST
SOLUTIONS

PRODUCT OVERVIEW

COLD CHAIN SOLUTIONS



19/10/2026



VESTFROST
SOLUTIONS

VESTFROST COLD CHAIN

PROFESSIONAL COOLING SOLUTIONS

Protect what matters with cooling solutions designed to safeguard health and save lives.

Cooling with care

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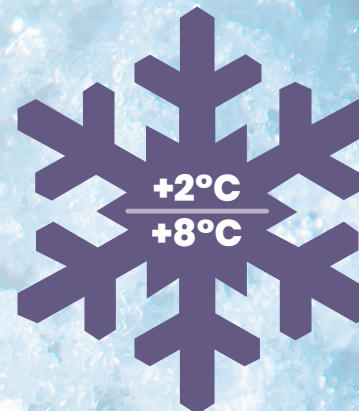
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COOLING WITH CARE

VACCINE REFRIGERATORS

AC SERIES



VLS 174Ae AC



VLS 204Ae AC



VLS 304Ae AC



VLS 404Ae AC



VLS 504Ae AC

VACCINE REFRIGERATORS

TEMPERATURE RANGE +2°C to +8°C

AC SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



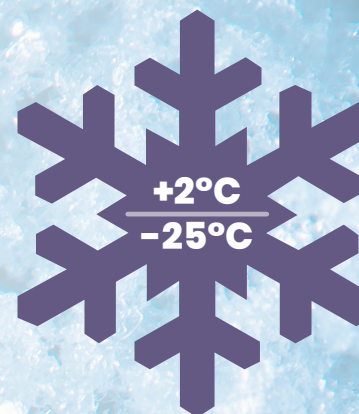
DIMENSIONS	VLS 174Ae AC	VLS 204Ae AC	VLS 304Ae AC	VLS 404Ae AC	VLS 504Ae AC
Height, mm	950	910	910	910	910
Width, mm	550	720	920	1260	1560
Depth, mm with handle	650	700	700	700	700
Gross weight, kg (incl. packaging)	84,70	116,4	132,20	159	193,7
Net weight, kg	63,80	91,4	104,80	127,2	172
Packed dimensions HxWxD, mm	1055 x 610 x 675	1025 x 785 x 727	1025 x 980 x 727	1025 x 1320 x 727	1025 x 1620 x 727
Shipping volume m³	0,43	0,58	0,73	0,98	1,21
SPECIFICATIONS					
Gross volume, L	50,6	113	157	235	314
Net volume, L	38	60	98	145	242
Temperature range (+43°C AMB)	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C
Hold-over time, hours (+43°C AMB)	57,52	54	55,5	55	55,27
Energy consumption - stable, kWh/24h	0,504	0,57	0,60	0,67	0,64
Energy consumption - cool down, kWh/24h	N/A	0,58	0,69	0,69	N/A
Refrigerant	R600a	R600a	R600a	R600a	R600a
Freeze protection, grade	A	A	A	A	A
Climate class	T	T	T	T	T
WHO PQS code	E003/120e	E003/109e	E003/110e	E003/112e	E003/113e
FEATURES					
Storage baskets, no. top	1	2	3	4	6
Storage baskets, no. bottom	1	1	2	3	4
Temperature control	Automatic	Automatic	Automatic	Automatic	Automatic
Lock + keys	YES	YES	YES	YES	YES
Junction box	YES	YES	YES	YES	YES
Adjustable legs	YES, 10 cm	YES, 10 cm	YES, 10 cm	YES, 10 cm	YES, 10 cm
Safety thermostat	YES	YES	YES	YES	YES
Appliance plugs	E, F, G	E, F, G	E, F, G	E, F, G	E, F, G
Industrial grade locking mechanism	YES	YES	YES	YES	YES
EMS level 3 as an option	YES	YES	YES	YES	YES
LOADING QUANTITIES					
Qty. per 20' / 40' container	44 / 92	44 / 92	36 / 72	24 / 50	18 / 42
VOLTAGE REGULATION RANGE					
220-240V 50/60Hz	110-278V 50/60Hz	110-278V 50/60Hz	110-278V 50/60Hz	110-278V 50/60Hz	110-278V 50/60Hz
100-127V 50/60Hz	82-159V 50/60Hz	82-159V 50/60Hz	82-159V 50/60Hz	82-159V 50/60Hz	82-159V 50/60Hz
Integrated and extended voltage stabilizer as standard in line with PQS E007/VS01-VP.6					

Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.

More than  30 years of WHO PQS approved products

AC REFRIGERATOR & FREEZER IN ONE

AC COMBI SERIES



COMBI

VLS 086A RF AC



COMBI

VLS 096Ae RF AC

AC REFRIGERATOR & FREEZER IN ONE

TEMPERATURE RANGE +2°C to +8°C / -15°C to -25°C

AC COMBI SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



DIMENSIONS	VLS 086A RF AC	VLS 096Ae RF AC
Height, mm	940	940
Width, mm	1190	1510
Depth, mm with handle	750	750
Gross weight, kg (incl. packaging)	140	190
Net weight, kg	115	150
Packed dimensions HxWxD, mm	1065 x 1240 x 785	1065 x 1560 x 785
Shipping volume m³	1,04	1,31
SPECIFICATIONS		
Gross volume, L	77,0	147
Net volume, L	58	110
Temperature range (+43°C AMB)	+2°C to +8°C	+2°C to +8°C
Hold-over time, hours (+43°C AMB)	130,17	93,04
Refrigerant	R600a	R600a
Freeze protection, grade	A	A
Climate class	T	T
WHO PQS code	E003/168	TBA
FREEZER SPECIFICATIONS		
Gross volume, L	50	50
Water pack storage capacity, L	28 x 0,6	28 x 0,6
Water pack freezing capacity, kg/24h	2,4	2,4
Temperature range (+43°C AMB)	-15°C to -25°C	-15°C to -25°C
Refrigerant	R290 + R600a	R290 + R600a
FEATURES		
Storage baskets, no	1	2
Temperature control	Automatic	Automatic
Lock + keys	YES	YES
Junction box	YES	YES
Adjustable legs	YES, 10 cm	YES, 10 cm
Safety thermostat	YES	YES
Charging port	USB A 5V	USB A 5V
EMS level 3 as an option	YES	YES
Industrial grade locking mechanism	YES	YES
Automatic drainage system	YES	YES
LOADING QUANTITIES		
Qty. per 20' / 40' container	22 / 48	10 / 20
VOLTAGE REGULATION RANGE		
220-240V/50/60Hz	110-278V/50/60Hz	110-278V/50/60Hz
100-127V/50/60Hz	82-159V/50/60Hz	82-159V/50/60Hz
Integrated and extended voltage stabilizer as standard in line with PQS E007/VS01-VP.6		

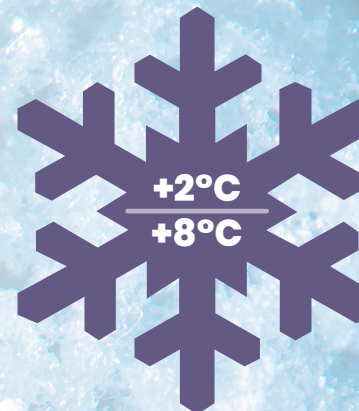
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VACCINE REFRIGERATORS

SDD SERIES



VLS 054Ae SDD



VLS 094Ae SDD



VLS 154Ae SDD

VACCINE REFRIGERATORS

TEMPERATURE RANGE +2°C to +8°C

SDD SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



DIMENSIONS	VLS 054Ae SDD	VLS 094Ae SDD	VLS 154Ae SDD
Height, mm	910	910	910
Width, mm	720	920	1260
Depth, mm with handle	700	700	700
Gross weight, kg (incl. packaging)	110,5	127,9	133,8
Net weight, kg	85	107	103,8
Packed dimensions HxWxD, mm	1025 x 785 x 727	1025 x 980 x 727	1025 x 1320 x 727
Shipping volume m³	0,58	0,73	0,98
SPECIFICATIONS			
Gross volume, L	108	151	248
Net volume, L	55,5	92	170
Temperature range (+43°C AMB)	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C
Autonomy, hours (+43°C AMB)	72,4	72,5	73,4
Energy consumption - stable, kWh/24h	0,35	0,24	0,56
Energy consumption - cool down, kWh/24h	0,69	0,45	0,55
Refrigerant	R600a	R600a	R600a
Freeze protection, grade	A	A	A
Climate class	T	T	T
WHO PQS code	E003/106e	E003/107e	E003/108e
FEATURES			
Storage baskets, no. top	2	1	4
Storage baskets, no. bottom	1	0	0
Temperature control	Automatic	Automatic	Automatic
Lock + keys	YES	YES	YES
Junction box	YES	YES	YES
Adjustable legs	YES, 10 cm	YES, 10 cm	YES, 10 cm
Safety thermostat	YES	YES	YES
Appliance plugs	E, F, G	-	-
Charging port	USB A 5V	USB A 5V	USB A 5V
Industrial grade locking mechanism	YES	YES	YES
EMS level 3 as an option	YES	YES	YES
LOADING QUANTITIES			
Qty. per 20' / 40' container	28 / 60	22 / 48	22 / 48
Incl. solar panels*	170 x 80 x 35 (DxWxH) - 110 kg		

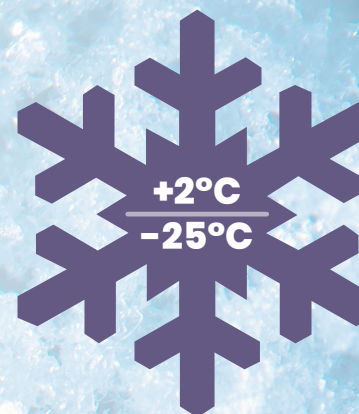
*See the solar panel datasheet at www.vestfrostsolutions.com

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SDD REFRIGERATOR & FREEZER IN ONE

TRUE COMBI SERIES



VLS 086A RF SDD



VLS 096Ae RF SDD

SDD REFRIGERATOR & FREEZER IN ONE

TEMPERATURE RANGE +2°C to +8°C / -15°C to -25°C

TRUE COMBI SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



DIMENSIONS	VLS 086A RF SDD	VLS 096Ae RF SDD
Height, mm	940	940
Width, mm	1190	1510
Depth, mm with handle	750	750
Gross weight, kg (incl. packaging)	140	190
Net weight, kg	115	150
Packed dimensions HxWxD, mm	1065 x 1240 x 785	1065 x 1560 x 785
Shipping volume m³	1,04	1,31
REFRIGERATOR SPECIFICATIONS		
Gross volume, L	77,0	147
Net volume, L	58	110
Temperature range (+43°C AMB)	+2°C to +8°C	+2°C to +8°C
Autonomy, hours (+43°C AMB)	128,33	114,33
Refrigerant	R600a	R600a
Freeze protection, grade	A	A
Climate class	T	T
WHO PQS code	E003/157	E003/132e
FREEZER SPECIFICATIONS		
Gross volume, L	50	50
Water pack storage capacity, L	28 x 0,6	28 x 0,6
Water pack freezing capacity, kg/24h	2,4	2,4
Temperature range (+43°C AMB)	-15°C to -25°C	-15°C to -25°C
Refrigerant	R290 + R600a	R290 + R600a
FEATURES		
Storage baskets, no	1	2
Temperature control	Automatic	Automatic
Lock + keys	YES	YES
Junction box	YES	YES
Adjustable legs	YES, 10 cm	YES, 10 cm
Safety thermostat	YES	YES
Charging port	USB A 5V	USB A 5V
EMS level 3 as an option	YES	YES
Industrial grade locking mechanism	YES	YES
Automatic drainage system	YES	YES
LOADING QUANTITIES		
Qty. per 20' / 40' container	22 / 48	12 / 22
Incl. solar panels*		
Solar panels packaging/weight dimensions	170 x 80 x 35 (DxWxH) - 110 kg	

*See the solar panel datasheet at www.vestfrostsolutions.com

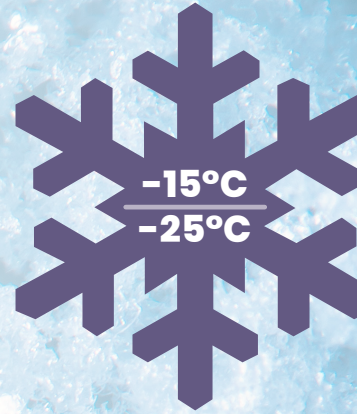
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WATERPACK FREEZERS

SDD FREEZER SERIES



VFS 048 SDD

WATERPACK FREEZERS

TEMPERATURE RANGE -15°C to -25°C

SDD FREEZER SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



DIMENSIONS		VFS 048 SDD
Height, mm		950
Width, mm		550
Depth, mm with handle		650
Gross weight, kg (incl. packaging)		73,13
Net weight, kg		58,1
Packed dimensions HxWxD, mm		1055 x 610 x 675
Shipping volume m³		0,43
SPECIFICATIONS		
Gross volume, L		34,3
Net volume, L		25,5
Autonomy, hours (+43°C AMB)		48
Energy consumption - stable, kWh/24h		N/A
Energy consumption - cool down, kWh/24h		N/A
Freeze protection, grade		A
Climate class		T
WHO PQS code		E003/099
FREEZER SPECIFICATIONS		
Water pack storage capacity, L		29 x 0,6
Water pack freezing capacity, kg/24h		1,6
Temperature range (+43°C AMB)		-15°C to -25°C
Refrigerant		R290 + R600a
FEATURES		
Storage baskets, no		0
Temperature control		Automatic
Lock + keys		YES
Junction box		YES
Adjustable legs		YES, 10 cm
Safety thermostat		YES
Charging port		USB A 5V
Appliance plugs		E, F, G
Industrial grade locking mechanism		YES
LOADING QUANTITIES		
Qty. per 20' / 40' container		23 / 60
Incl. solar panels*		
Solar panels packaging/weight dimensions		170 x 80 x 35 (DxWxH) - 110 kg

*See the solar panel datasheet at www.vestfrostsolutions.com

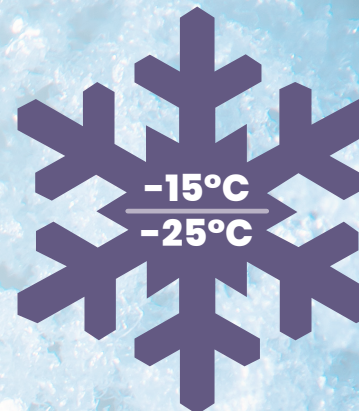
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VACCINE & ICEPACK FREEZERS

MF SERIES



MF 114



MF 214



MF 314

VACCINE & ICEPACK FREEZERS

TEMPERATURE RANGE -15°C to -25°C

MF SERIES

TrueBlue Series
A NEW GENERATION
OF PRODUCTS



DIMENSIONS	MF 114	MF 214	MF 314
Height, mm	910	910	910
Width, mm	720	1120	1560
Depth, mm with handle	700	700	700
Gross weight, kg (incl. packaging)	69,90	93	117,2
Net weight, kg	62,2	71,30	80
Packed dimensions HxWxD, mm	1025 x 785 x 727	1025 x 1185 x 727	1025 x 1620 x 727
Shipping volume m³	0,58	0,88	1,21
SPECIFICATIONS			
Gross volume, L	105	171	281
Icepack freezing capacity, kg/24h	7,2	7,2	7,2
Icepack storage capacity, liters	64 x 0,6	160 x 0,6	256 x 0,6
Temperature range (+43°C AMB)	-15°C to -25°C	-15°C to -25°C	-15°C to -25°C
Hold-over time, hours (+43°C AMB)	2,8	2,9	4,0
Energy consumption - stable, kWh/24h	2,24	3,00	4,23
Energy consumption - cool down, kWh/24h	2,41	2,96	4,29
Refrigerant	R600a	R600a	R600a
WHO PQS code	E003/024	E003/025	E003/023
Climate class	T	T	T
FEATURES			
Storage baskets, no	2	2	3
Temperature control	Automatic	Automatic	Automatic
Lock + keys	YES	YES	YES
Adjustable legs	YES, 10 cm	YES, 10 cm	YES, 10 cm
Junction box	YES	YES	YES
Safety thermostat	NO	NO	NO
Appliance plugs	E, F, G	E, F, G	E, F, G
Industrial grade locking mechanism	YES	YES	YES
Fridge-tag 2E	YES	YES	YES
LOADING QUANTITIES			
Qty. per 20' / 40' / container	44 / 92	24 / 60	18 / 42
Qty. per truck (EU standard)	108	72	48
VOLTAGE REGULATION RANGE			
220-240V/50/60Hz	110-278V/50/60Hz	110-278V/50/60Hz	110-278V/50/60Hz
100-127V/50/60Hz	82-159V/50/60Hz	82-159V/50/60Hz	82-159V/50/60Hz
Integrated and extended voltage stabilizer as standard in line with PQS E007/VS01-VP.6			

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EMS SYSTEM

VF-EMS SYSTEM L2/3 2.0

Equipment Monitoring System with built-in datalogger, GPS and remote temperature data log via GSM. 5" touch display with access to various actual temperatures, datalog, and diagnosis. Designed for monitoring ILR and SDD vaccine refrigerators.

WHO Approved in compliance with PQS 2026 specifications: E006/EM01.2



SPECIFICATIONS

Display	5" touch screen (color display)
Temperature range	-40°C to +85°C
Accuracy	±0.5°C from -10°C to +85°C
Battery Backup	Min. 240 hours
Sim Card	Supplied with global sim card
Sim Card optional	Can be supplied with local sim card (limited to specific countries)
Voltage range	220-240V 50/60Hz - 115/60Hz
IP rating	Tested at Force Technology - Test report no: 125-28479-1, IP64
Type	Fully integrated in lid of VLS appliance

SENSORS

Vaccine compartment 1	YES
Vaccine compartment 2	YES
Freezer (if applicable)	YES
Ice bank	YES
Ambient	YES
Lid opening	YES
Battery level	YES

DATA LOGGER

Temperature data	5
Temperature reports PDF	30/60 days
Data file type: Json data objects for data records	YES
Compressor state on/off	YES
Lid Status/Alarm	YES
GPS coordinates	YES
SMS/Email alarms	YES

FEATURES

Realtime temperature and functionality monitoring (L3)	Password access
Setpoint settings shown in online dashboard (L3)	Remote alarm logs
Option to remote control unit setpoints (L3)	GPS coordinates
2 x vaccine compartment temperature sensors	Compressor current measurements
Individual temperature data, graphs, and alarms displayed on the LCD touch screen	1 x USB energy harvesting option charging e.g. phone
Compressor status input/On/Off data monitored/stored	Holdover/Autonomy time indicator
Remote alarms	M2M - Machine to machine connection
24/7 GSM connectivity	VARO Connectivity
2/4G Connectivity	Improve signal with the option to add external antenna

Data logger and machine-to-machine interface for Equipment Monitoring Systems	Performance specification	Product verification protocol
VF-DL 1.0	E006/DL01.2	E006/DL01-VP.3
Equipment Monitoring Devices for Equipment Monitoring Systems	Performance specification	Product verification protocol
VF-EMS L2/3 2.0	E006/EM01.2	E006/EM01-VP.2
Data standards for cold chain equipment monitoring	Performance specification	Product verification protocol
DVF-DL 1.0 and VF-EMS L2/3 2.0	E006/DS01.2	-

In compliance with latest WHO PQS requirements.

EMS LEVELS

From basic monitoring to full connectivity

A clear overview of EMS capabilities across levels
- scalable to match your cold chain needs.



LEVEL 1
Local basic



LEVEL 2
Advanced local



LEVEL 3
Advanced (full remote)

FEATURES			
Monitoring type	 Basic local	 Advanced local	 Remote + local
Data access (USB)			
Local display	 Basic	 Advanced	 Advanced
Alarm locally (display) Audio + visual			
Local dashboard / visualization			
Local data analysis & decision support			
Remote connectivity (GSM/SIM)			
Remote monitoring (dashboard)			
SMS / E-mail alarms			
Auto communications to external systems API			
Remote diagnostics			
User apps / email reporting	 (Manual)	 (Local support)	 (Full remote)
Upgrade possibility	 Level 2 / Level 3	 Level 3	
Use case (simplified)	Basic monitoring (manual)	Local decision support (advanced)	Full fleet management



Upgradable from Level 1 to Level 3

A future-ready platform that grows with your needs.

1



2



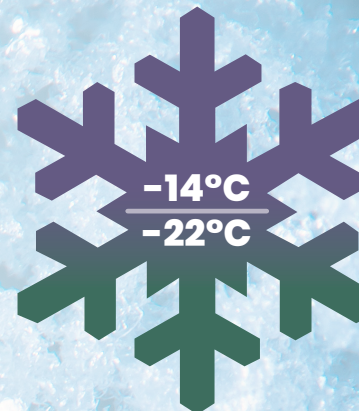
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SOE 215

**SOLAR DIRECT DRIVEN
CHEST FREEZER**



SOE 215

SOE 215

TEMPERATURE RANGE -14°C to -16°C/-14°C to -22°C

SOLAR DIRECT DRIVEN CHEST FREEZER



DIMENSIONS		SOE 215
Height, mm		850
Width, mm		1125
Depth, mm with handle		600
Gross weight, kg (incl. packaging)		60
Net weight, kg		50
SPECIFICATIONS		
Gross volume, L		213
Net volume, L		211
Voltage, V		12 - 45
FREEZER SPECIFICATIONS		
Temperature range (+43°C AMB)		-14°C to -16°C
Temperature range (+32°C AMB)		-14°C to -22°C
Refrigerant		R600a
FEATURES		
Storage baskets, no		2
Temperature control		Automatic
Lock + keys		YES



Please note that our SOE appliances are not approved for vaccines or vital contents. For solar vaccine storage Vestfrost Solutions can offer our WHO PQS approved VLS line.

Only the appliance is sold by Vestfrost Solutions.
Does not include charger, solar panels, batteries, etc.

If technical support related to sizing of PV panels, battery or charge controller is required, do not hesitate to contact our technical support at: technicalsupport@vestfrostsolutions.com

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TRUSTED COOLING SOLUTIONS



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Please see our website
for more information:

www.vestfrostsolutions.com

www.vestfrostsolutions.com/vaccine-cold-chain/



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